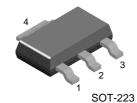


BCP68

NPN General Purpose Amplifier

- This device is designed for general purpose medium power amplifiers.
 Sourced from process 37.



1. Base 2.4. Collector 3. Emitter

Absolute Maximum Ratings $T_C=25^{\circ}C$ unless otherwise noted

Symbol	Parameter	✓ Value	Units
V _{CEO}	Collector-Emitter Voltage	20	V
V _{CBO}	Collector-Base Voltage	30	V
V _{EBO}	Emitter-Base Voltage	5	V
I _C	Collector Current	1	Α
P _D	Total Device Dissipation @ T _A =25°C	1.5	Watts
	- Derate above 25°C	12	mW/°C
T _J , T _{STG}	Operating and Storage Junction Temperature Range	- 55 ~ +150	°C

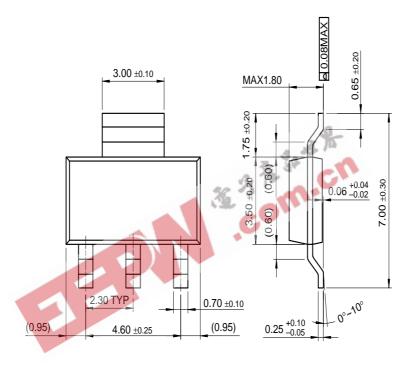
Electrical Characteristics T_C=25°C unless otherwise noted

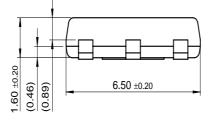
Symbol	Parameter	Test Conditions	Min.	Тур.	Max.	Units
Off Characteristics						
V _{(BR)CES}	Collector-Emitter Breakdown Voltage	$I_C = 100 \mu A, I_E = 0$	25			V
V _{(BR)CEO}	Collector-Emitter Breakdown Voltage	$I_C = 1 \text{mA}, I_B = 0$	20			V
V _{(BR)EBO}	Emitter-Base Breakdown Voltage	$I_E = 10\mu A, I_C = 0$	5			V
I _{CBO}	Collector-Base Cutoff Current	V _{CB} = 25V, I _E = 0, T _A = 25°C V _{CB} = 25V, I _E = 0, T _A = 125°C			10 1	μA mA
I _{EBO}	Emitter-Base Cutoff Current	$V_{EB} = 5V, I_{C} = 0$			10	μΑ
On Characte	eristics (1)					
h _{FE}	DC Current Gain	$I_C = 5mA, V_{CE} = 10V$ $I_C = 500mA, V_{CE} = 1V$ $I_C = 1A, V_{CE} = 1V$	50 85 60		375	
V _{CE(sat)}	Collector-Emitter Saturation Voltage	I _C = 1A, I _B = 100mA			0.5	V
V _{BE(on)}	Base-Emitter On Voltage	I _C = 1A, V _{CE} = 1V			1	V

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Package Demensions

SOT-223





Dimensions in Millimeters

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EnSigna™	MicroFET™	QT Optoelectronics™	TinyLogic™	
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